







Secretariat of the Pacific Community

Government of the Cook Islands

GLOBAL CLIMATE CHANGE ALLIANCE: PACIFIC SMALL ISLAND STATES

PROJECT DESIGN DOCUMENT

Environmental Monitoring to Enhance Community Livelihoods and Build Resilience to Climate Change in Low-Lying Atolls of the Cook Islands

AMENDMENT 1

20TH February 2015



Background

Since the Project Design Document was signed on 11th April 2013, changes have been made to the budget allocations and the scope of the project. This amendment addresses these changes.

Changes in activities

An additional activity has been added: Activity 3.4 Transference of lessons learnt in pearl farming to Penrhyn. This entails (i) conduct studies on the collection and settlement of spats in the wild (instead of using costly hatchery produced spats); (ii) provision of training in water quality monitoring and the transference of experience from Manihiki to Penrhyn in water quality monitoring particularly as it relates to pearl farming; and (iii) purchase of equipment (water quality probe, aluminium boat and outboard engine).

Changes in the log frame

The revised log frame is attached as Annex 1. The main changes are the addition of activity 3.4 and the revision of some of the dates for completion of the indicators.

Changes in the budget

An additional line item has been made in the budget for Activity 3.4, NZ\$ 63,000 (approximately Euros 41,737)

SIGNATURE PAGE

Country: COOK ISLANDS

Project Design Document agreed by:	
Ministry of Marine Resources Mr. Ben Ponia, Secretary	20/2/15 Date:
Office of the Prime Minister Ms. Elizabeth Wright-Koteka Chief of Staff	Date: 20/2/15
Ministry of Finance and Economic Management Mr. Peter Tierney Development Coordination Division	Date: 20/2/45
Secretariat of the Pacific Community Dr. Gillian Cambers, Project Manager Global Climate Change Alliance: Pacific Small Islands States Project	200 Lb 2015 Date:

Annex 1 Project Logical Framework (revised February 2015) "Environmental monitoring to enhance community livelihoods and build resilience to climate change in the low-lying atolls of the Cook Islands"

Description	Verifiable Indicators	Verification Sources	Assumptions
Overall Objective To build resilience to climate change in the Cook Islands	Climate change issues are included in at least four island community development plans by December 2014	Government plans, policies and strategies, Joint National Action Plan on CCA and DRM, Community Sustainabe Development Plans, MMR Annual Report and business plan Cook Islands Coastal Fisheries Policy	Plans, Policies and strategies have a stakeholder or community buy-in and willingness to implement.
Purpose To strengthen environmental monitoring and its relevance to the communities of the northern atolls	 At least one northern atoll community is engaged in environmental monitoring by December 2014. At least two communities in the 	MMR 6 monthly and Annual report Quarterly Progress Reports	Interest and buy in from stakeholders Tools and resources are available, cost effective and simple enough for communities to understand, adopt and implement
	 At least two communities in the northern atolls are publicly displaying the results of the environmental monitoring by June 2015. At least one school in the northern atolls is involved in monitoring water quality by June 2015. 		
Key Result Area 1 Awareness and understanding of the results from environmental monitoring of the lagoon system advanced.		Cook Islands Pearl Biannual Forum Report Monthly Water Quality Report Annual Water Quality Report	Communication tools appeals to community and is easily accessible and simple for communities and stakeholders.
	 At least 10 pearl farmers are trained in water quality monitoring and climate change 	Progress Reports	

Feasibility study of appropriate marine- resource related livelihood activities conducted in Penrhyn, Rakahanga, Pukapuka and Manihiki in light of changing climate	Existing environmental monitoring system strengthened especially in Manihiki •	Description
Feasibility study completed on marine resources management in the four northern atolls by September 2015.	One fully operational environmental monitoring system in place in Manihiki by June 2014. MMR laboratory upgraded so that all nutrient analysis will be analysed in-house by June 2015. At least four people in Manihiki are trained in maintenance of monitoring equipment by July 2014. At least two MMR personnel trained in water quality monitoring and data analysis by June 2015. At least one publication about project activities by December 2014.	Verifiable Indicators resilience building activities by June 2015.
Resource/or management plans Quarterly Progress Reports Feasibility Reports Terminal report	Annual water Quality Report Monthly Water Quality Lagoon Health Report Annual Report Quarterly Progress Report User Manual Progress Report MMR Business Plan MMR website Scientific publications MMR Information Management System Asset Register Data & Methodology implemented	Verification Sources
Island Councils of Penrhyn, Rakahanga, Pukapuka and Manihiki are willing to participate in the feasibility study. Logistics, transportation availability.	Island council, farmers, and pearl farmers association support environmental monitoring programme. Basic infrastructure (power, transport, communications) remain in place Appropriate and timely recruitment of key staff. Monitoring system in place with minimum logistical and setup problems.	Assumptions

Description	Verifiable Indicators	Verification Sources	Assumptions
Key Result Area 4 Community engaged in implementing the pearl farming management plan	 Revised compliance structure completed for the pearl management plan by September 2015. At least 20 pearl farmers provide input to the review of the pearl management plan. 	Six-monthly inspection report Seeding harvest reports Census and benchmarking reports Progress Reports Six-monthly National Economic Report	Manihiki Island Community supports revising the plan Market demand for high quality pearls does not drop below current levels. Appropriate authority is willing and able to ensure compliance
Activities	Means	Indicative costs: €0.5 million	Communication strategy appropriate and is accepted
1.1. Development of a communication plan	Technical assistance		easily understood by various stakeholders.
1.2. Preparation of communication tools	Missions to countries		New start is employed in time.
 1.3. Preparation of an information package for end-users 	Purchase of equipment Training activities		Political interference minimal from Government and
1.4. Training of pearl farmers in water quality monitoring	Meetings and conferences		WIGHT COMMINGENINGS
2.1. Provision of two qualified staff employed by MMR (one in Rarotonga and one in Manihiki)	Media involvement Reporting and evaluation		
2.2. Improve monitoring of environmental conditions including a maintenance plan and financing plan beyond project life.			
 Train MMR personnel to conduct environmental monitoring, analysis and application of data. 			
2.4. Laboratory upgrade			
3.2 Feasibility study into the viability of pearl			

Description	Verifiable Indicators	Verification Sources	Assumptions
farming and other marine resource related livelihood activities in the northern atolls			
3.3 Consultations with stakeholders on the four atolls (linked to 3.2)			
3.4 Transference of lessons learnt in pearl farming to Penrhyn			
4.1 Assist the Island Council to design compliance structure for the pearl management plan.			

ANNEX 2 PROJECT BUDGET AND PAYMENT SCHEDULE

N _ 48. U.S.	1	7.1	1	1
ACUVILY	(NZ\$)	(Euro ¹)	(NZ\$)	(Euro ²)
KRA1. Awareness and understanding of the results from environmental monitoring of the lagoon system advanced			84,000	54,873
1.1 TA to develop communication plan for marine resources management in the context of	30,000	19,598		
climate change in the northern atolls				
1.2 Preparation of communication tools, e.g. regular web updates, community notice boards	10,000	6,532		
1.3 Preparation of information package for end-users	30,000	19,598		
1.4 Training for pearl farmers in water quality monitoring (Purchase of water quality kits, training)	14,000	9,145		
KRA2: Existing environmental monitoring systems strengthened especially in Manihiki			405,687	265,016
2.1 Two qualified staff members in place in MMR (one in Manihiki and one in Rarotonga) to drive				
and implement the project.				
Rarotonga based Project Officer Band J: 475-546 (NZ\$32,282 + 6% superannuation 1,936.92)	68,438	44,707		
Manihiki based Project Officer Band I: (NZ\$27,980.50 + 6% superannuation 1,678.80)	59,378	38,749		
2.2. Improve monitoring for environment conditions in Manihiki including a maintenance plan and				
financing plan beyond project life.				
Payment for buoy sensor refurbishment for 1 buoy	57,000	37,235		
Air freight electronic components USA to Fiji	3,017	1,971		
Shipment & installation of 1 buoy (with SPC-AGTD technical support)in Manihiki	70,164	45,835		
Retrieval and recalibration of sensors for one buoy including accessories and travel after 12	38,750	25.314		
months				
2.3. Train MMR personnel to conduct environmental monitoring, analysis and application of data	30,000	19,598		
2.4 National laboratory upgrade				
Purchase and installation of equipment	37,000	24,170		
Nutrient analyser \$17,000				

¹ 1 NZD equals 0.65325365 for period 01.04.13 – 30.04.13 taken from http://ec.europa.eu/budget/contracts_grants/info_contracts/inforeuro/inforeuro_en.cfm ² 1 NZD equals 0.65325365 for period 01.04.13 – 30.04.13 taken from http://ec.europa.eu/budget/contracts_grants/info_contracts/inforeuro/inforeuro_en.cfm

436,751	667,687	436,751	667,687	Sub-Total Sub-Total
		19,598	30,000	4.1. TA to add compliance structure to the Management Plan 40 person days (\$20,000), travel & per diem (\$10,000)
19,598	30,000			KRA4. Community engaged in implementing the pearl farming management plan
				Contingencies \$ 5,000
				 Freight costs \$3,000
				 18 foot aluminium boat \$28,000
				 YSI multi parameter system probe \$ 7,000
				 100 hp Yamaha 4 stroke (long shaft) outboard motor complete with accessories \$15,000
		+1,707	0,000	Snat collectors \$5,000
		A1 737*	63 000	3.4 Transference of lessons learnt in pearl farming to Penrhyn
				3.3 Consultations in four atolls (Penrhyn, Rakahanga, Pukapuka and Manihiki) – cost already included in line item 3.2
		35,929	55,000	travel to other atolls)
				3.2. TA to conduct feasibility study on each island 80 person days @ NZ\$ 500/day (includes
		19,598	30,000	3.1. Update existing Pearl Economic Model
97,264	148,000			conducted in Penrhyn, Rakahanga, Pukapuka and Manihiki in light of climate change
				KRA3. Feasibility study of appropriate marine resource related livelihood activities
				 Biochemical Oxygen Demand \$4,500
				 Plankton \$1,500
				Turbidity \$1,000
***************************************				Bacteria \$11,000
***************************************				 Nutrient analyser \$24,000
		27,436	42,000	Consumables and operational costs
				• Turbidity \$4,000
				Bacteria \$9,000
Total (Euro ²)	Total (NZ\$)	Budget (Euro ¹)	Budget (NZ\$)	Activity

Overall Cost	Contingency including coverage for exchange rate fluctuations	Total	Additional travel to Manihiki for MMR staff, unanticipated freight costs, possible charter costs**	Activity
828,400	52,091	776,309	108,622	Budget (NZ\$)
541,737	34,028	507,709	70,958	Budget (Euro ¹)
828,400	52,091	776,309	108,622	Total (NZ\$)
541,737	34,028	507,709	70,958	Total (Euro ²)

*The published exchange rate on 19.02.15 was used in this conversion, which is different to the one used in all other dollar/Euro conversions.

541,737 and any surplus will be paid out to the Government of the Cook Islands (including any surplus from KRAs that SPC is funding directly). be requested once 80% of the two payments have been acquitted. At that time, SPC will revalue the sum of NZD 828,400 against Euro Tranche 1 (NZ\$ 285,525) was sent on 25.07.13 and the second tranche (NZ\$ 310,969) was sent on 03.06.14. The third and final tranche can

be used to cover eligible costs of the operation. emerge. Any interest accruing from the advances paid by SPC shall be considered as income for the purpose of operating this project. It may Acquittals must be supported by copies of receipts. Annual government audits will be sufficient unless any accounting or financial problems Payments shall be made into the Government's account. All payments will be made in the currency of the Government of Cook Islands

The Government shall oversee accurate and regular records and accounts of the implementation of the operation

- Financial transactions and financial statements shall be subject to the internal and external-auditing procedures laid down in the financial regulations, rules and directives of SPC
- All substantiating documents relating to each financial transaction shall form part of the quarterly acquittal
- Reimbursements of funds shall only be made on receipt of the proper acquittal of the funds already advanced
- project the assets will be officially handed over by SPC to the respective stakeholders in the country. An asset register of all assets Fixed Assets (equipment): All fixed assets (equipment) will remain the property of SPC until the closure of the project. On closure of the purchased should be kept in the office of the Government.